# UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS

FRONTIER FISHING CORP.	)	CIVIL ACTION
Plaintiff,	)	NO.: 04-11171-DPW
V.	)	
	)	
DONALD EVANS, Secretary of the	)	
UNITED STATES DEPARTMENT OF	)	
COMMERCE; AND CONRAD C.	)	
LAUTENBACHER, JR., UNDER	)	
SECRETARY FOR OCEANS AND	)	
ATMOSPHERE/ADMINISTRATOR AND	)	
DEPUTY UNDER SECRETARY	)	
	)	
Defendants.	,	

#### **AFFIDAVIT OF HARRIET A. DIDRIKSEN**

- I, Harriet A. Didriksen, of 74 North Street, Mattapoisett, Massachusetts, having been duly sworn, hereby state:
- 1. I am a president and sole shareholder of Frontier Fishing Corp. and have been following these proceedings before the Agency below on behalf of the corporation.
- 2. In October of 2004, I reviewed the file on this matter that was received from our prior counsel. While reviewing the file I found the 17 page fax that is attached hereto.
- 3. Page 9 of the fax contains a handwritten log which appears be part of the CIC records. I am familiar with the file related to this case, attended the hearing and had never seen this document before.

Signed under the pains and penalties of perjury this 7<sup>th</sup> day of April, 2005

/s/ Harriet A. Didriksen
Harriet A. Didriksen

Office of the Assistant General Counsel for Enforcement and Litigation 8484 Georgia Avenue, Suite 400 Silver Spring, Maryland 20910 voice (301) 427-2202 fax (301) 427-2404/2211

# **Facsimile Cover Sheet**

Date: Mubust 10, 2001

To: MANERA LATRENIELE	Fax Number: 508-493-3117
Office:	Telephone Number:
From: JOEL LABISSONNIERE	Pages (inc. cover): 17
Comments:	
Pursuement TO 40012 DISCI	overs REQUEST, ATTACHED
THE TOLLOWING ITE	ris
O ANTENNA DATA	
1 SPENCER CIC RE	ECORDS (RETRIEURO FROM
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#### NOTICE

THIS FACSIMILE MAY CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE ADDRESSEE NAMED ABOVE. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATIONS STRICTLY PROHIBITED. UPON ERRONEOUS RECEIPT OF THIS COMMUNICATION PLEASENOTIFY THIS OFFICE IMMEDIATELY BY TELEPHONE—WE WILL ARRANGE TO HAVE THE COMMUNICATION RETURNED TO US

### 1.8 ANTENNA, AS-3194 AND PEDESTAL, AB-1247A (UNIT: 1 : 2)

#### 1.8.1 Function of Equipment [X-Band Antenna]

RF energy from the transmitter section of the MTR is coupled the high a rotary joint waveguide and directed to the slotted waveguide array (ante na). Energy is radiated from the array in a narrow unidirectional beam, so that he bearing of an object reflecting energy can be determined to within approximately 1°. Vertically, the beam is relatively wide (approximately 20°), so the the roll and pitch of the vessed will not normally impair the antenna direct line if sight to the horizon. The antenna radiates the pulse of high frequency energy and receives the reflected pulse of energy from the target.

The slotted waveguide array is continuously rotated by the drive system which reduces the antenna motor shaft speed to the desired antenna rotati n speed. The resolver is an electro-mechanical device which converts the lotation and instantaneous direction of the antenna into electrical signals that suse the FFI trace to rotate in synchronism with the antenna. The heading line is generated by means of a reed switch which momentarily closes once every revolution when the antenna passes the bow of the ship.

#### 1.8.2 Antenna Ferformance Characteristics

The performance characteristics of Antenna, AS-3194 and Pedes al., AB-1247A follow in Table 1-7.

Table 1-7 Antenna, AS-3194 and Antenna Pedestal, AB-11 TA, Performance Characteristics

Parameter	Description
Type	End-Fed Slotted Array
Polarization	Horizontal
Horizontal Beam Width (at -3 dB)	1.20
Vertical Beam Width (at -3 dB)	20.70
Gain	28.5 dB
Horizontal Side Lobes	-29 dB
Rotation Speed	33 RPM =
Ambient Temperature Range	-25° to +65°C
Relative Humidity (at 55°C)	984
Shock (all planes)	20G
Vibration	1G at 5-50 Hz
Waterproofing	24 hrs at 1 inch/hr or 1 h at 5
	inches/hr
Rated Wind Load:	
Operating	100 knots
Survival	150 knots

#### 1.8.3 Antenne Pedestal Power Requirements

The power requirements for the Antenna Pedestal (AB-1247A) are 1 5 Vac. single phase, 60 Hz, 977W.

# 1.9 ANTENNA, AS-3195 AND PEDESTAL, AB-1248 (UNIT: 11 and 12)

### 1.9.1 Function of Equipment [S-Band Antenna]

The pedestal supports and rotates the antenna at 33 RPM. The antenna both radiates the narrow horizontal beam generated by the MTR and receives the target schoes for transmission to the MTR.

#### 1.9.2 Antenna Performance Characteristics

The performance characteristics of Antenna, AS-3195 and Intenna Pedestal, AB-1248 follow in Table 1-8.

Table 1-8 Antenna, AS-3195 and Antenna Pedestal, di-1248, Performance Characteristics

Parameter	Description .	
Тура	End-Fed Slotted Array	AL ADMINISTRATION OF A LABOR TO THE PARTY OF
Polarization.	Horizontal	
Norizontal Beam Width (at -3 dB)	20	
Vertical Beam Width (at -3 dB)	239	
Gain	27.5 dB	
Horizontal Side Lobes	-29 dB	
Rotation Speed	33 RPM	
Ambient Temperature Range	-25° to +65°C	
Relative Humidity (at 55°C)	95%	
Shock (all planes)	20G	
Vibration	1G at 5-50 Hz	
Waterproofing	24 hrs. at 1 inch/hour inches/hour	or 1 hour at 5
Rated Wind Load:		-
Operating	100 knots	
Survival	150 knots	

### 1.9.3 Antenna Pedestal Fower Requirements

The power requirements for the Antenna Pedestal #AB-1248 are 440 Vac, 3 phase, 50-60 Hz, 1400W.

### 1.10 RECEIVER TRANSMITTER, RT-1342A (UNIT 17)

### 1.10.1 Function of Equipment [X-Band MTR]

The MTR (50 kW, X-band) generates the radio frequency burst for radiation by the antenna in accordance with timing and control aignals from the indicators. The echoes reflected from the target are amplified and detected to provide video target data to the indicators.

# 1.10.2 MTR (X-Band) Ferformance Characteristics

The performance characteristics for the X-Band Receiver Transmit 12, RT-1342A follow in Table 1-3.

Table 1-9 Receiver Transmitter, RT-1342A, Performance Chars teristics

Parameter	Description
Transmitter	Ţ.,
Trequency Range Peak Power Output Pulse Width	9375 ± 30 MHz 40 kW Nominal 0.06 usec (0.25 to 3 NM); 0.5 usec 6, 12 NM): 1 usec (24, 48, 64 NM); 0.5 usec () RT) 3600, 1800, and 900 PPS
Receiver	
Intermediate Fraquency IF Amplifier Bandwidth Video Amplifier Bandwidth Noise Figure Minimum Discernible Signal	45 MHz 24 MHz (0.05 usec PW); 4 MHz (0.5 and 1 usec PW) 20 MHz equivalent (sampled data system) 10 dB maximum -98 dB minimum
System Environment	_
Ambient Temperature Range Relative Humidity (at 55°C) Shock (all planes) Vibration Waterproofing	0° to +55°C 95% 15G 1G at 5-50 Hz Drip-proof

## 1.10.3 MTR (X-Band) Power Requirements

The power requirements for the X-Band MTR (RT-1342A) are 11 Vac. single phase, 50-50 Hz, 550W.

#### RECEIVER TRANSMITTER, RT-1241A (UNIT 13) 1.11

#### Function of Equipment [8-Band MTR] 1.11.1

The MTR (60 kW, S-Band) provides 45 kW peak power at 5-B nd for radiation by the antenna. Target echoes are received by the antenna ar 1 then amplified to provide videc data to the indicators.

# M'TR (S-Bend) Performance Characteristics

The performance characteristics for the S-Band Receiver Tr. 19mitter, RT-1241A follow in Table 1-10.

Table 1-10 Receiver Transmitter, RT-1241A, Performance Characteristics

Parameter	Description	į		
Transmitter		-		
Frequency Range	3050 ± 25 MHz			
Peak Power Output	50 kW Nominal			
Pulse Width	0.06 usec (0.25 12 NM); 1 usec 24 0.5 usec (12RT)			(6,
PRF	3600, 1800, 900 PP	25		
Receiver	3 9			
Intermediate Frequency	45 MHz 24 MHz (0.06	7314	A METER	(0 E
IF Amplifier Bandwidth	and 1 usec PW)	daec in	) 4 MEE	10.0
Video Amplifier Bandwidth	20 MHz equivalent	(sample da	ti aystem)	
Noise Figure	10 dB maximum			
Minimum Discernible Signal	-98 dB minimum			-
System Environment				
Ambient Temperature	0° to +55° C			
Relative Humidity (at 55°C)	95%			
Shock (all planes)	15G	2		
Vibration	1G at 5-50 Hz	2		
Waterproofing	Drip-proof	35		

#### 1.11.3 MT'R (S-Band) Power Requirements

The power requirements of the S-Band MTR (RT-1241A) a : 115 Vac, single phase 50-60Ez, 575W.

# 1.12 AZIMUTH RANGE INDICATOR, IP-1282C (12-INCH) (UMIT )

### 1.12.1 Function of Equipment [12-Inch Ind]

The IP-1282C indicator provides a PPI display for a full 360° coverage. There are ten display ranges extending from 0.25 to 64 miles. An : ided feature includes an Electronic Bearing Line (EBL) for accurate measurement of target bearing and range information. Heading flash and both fixed and a criable range markers are displayed on the CRT along with the targets.

## 1.12.2 12" Indicator Performance Characteristics

The performance characteristics of Indicator, IP-1282C follow in Talles 1-11 and I-12.

Table 1-11 Indicator, IP-1282C, Performance Characterist 39

Parameter	Description	
System		
CRT Phosphor:	P38	
Minimum Range:	25 yards	
Range Scales:	.25, .50, .75, 1.5, 3, 5, 12, 24, 48, 64 N	M,
Range Ring Accuracy:	10 yards or ±0.25% (whichever is gre ter)	
Range Resolution:	0.25, 0.5, 0.75 NM 1.5 NM 3.0 N 1	
Bearing Resolution:	1,25° at 1/3 radius	
Bearing Accuracy:	±1.0 degree	
VRM Accuracy:	10 yards or 1.03 (whichever is great ?)	
VRM Resolution:	5.062 yards or ±0.25% (whichever is reste	1)
Invironmental	•	
Operating Temperature		
Range:	32° to 131°F (0° to 55°C)	
Vibration:	1g peak 6 5 to 50 Hz in 3 mutually p r- pendicular planes	
Humidity:	0 to 95% © 32° to 104°F (0° to 40°C) (ambient)	

# 6.2 6-FT ANTENNA, AS-3194 (UNIT 1) AND ANTENNA PEDESTAL, AB-1247A (UNIT 2)

#### 5.2.1 General

The Antenna, AS-3194 (Unit 1) of the AN/SPS-64(V)6 Radar ystem is a 6 foot long, end fed, slotted X-Band antenna array. The RF energy is fed via waveguide into one end of this 6 foot array and radiates a beam of F energy through slots in the waveguide. These slots in the waveguide inside is earray are very accurately cut to provide a narrow 1.2° beamwidth. The array flares control the vertical beamwidth of 20° which allows target detection on a roll og vessel.

The X-Band Antenna Pedestal, AE-1267A includes Antenna Drive Motor, B1, Resolver, B2, Antenna Safety Switch, S1 and Heading Flash Switch, S2. This pedestal also includes a synchro, B3 to provide an extra ant nna position data output.

Input voltage to the antenna motor is applied via TB2. So ting the antenna safety switch to OFF ensures that power is removed from the a tenna drive motor by action of relay 3K4 such that the antenna cannot accidentally be rotated during inspection or service. Protection against of radiation from the antenna during service is provided by SIB. With SI set to OFF, the ground on TB1-12 is removed from terminal TB1-11, disabling the transmitter, it steby placing the system in the standby mode.

Resolver B2 is an electro-mechanical device coupled to the ar same array drive mechanism. As the antenna rotates, resolver B2 converts the instantaneous position of the array into electrical signals which are coupled via TB1, through the Receiver Transmitter. At the indicator, these signals caus the PPI trace to rotate in synchronism with the antenna array. The resolver in driven at terminals S1 and S3 with a 900 Hz square wave. C1 and C3 are the cutputs of the resolver compensation winding, which senses the flux in the resolver. This information is fed back to a resolver drive amplifier in order amplitude input at SI/S3. R1 - R3, and R2 - R4 are the rotor windings which provide a square wave output whose voltage amplitude is proportional to the input times the sine or cosine of the rotor angle.

S2 is the ship's heading flash switch. This switch closes one every revolution of the array corresponding to the instant that the antenna bas: passes over the ship's bow providing a heading line trigger to the indicator unit

The synchro transmitter BS provides a single speed antenna position output for interface with the COMDAC Display Systems. Excitation voltage 115 Vac, 60Hz is applied to the rotor winding of B3 while the 90 Vac statos outputs provide positional information to the COMDAC System.

# 6.3 12-FT ANTENNA, AS-3195 (UNIT 11) & ANTENNA PEDESTAL, AB-1248 (UNIT 12)

# 6.3.1 General

S-Band Antenna Pedestal, AB-1248 supports a 12-foot S- and Antenna Array, AS-3195. The antenna array consists of a slotted waveg aide, end-fed with a coaxial cable. The coaxial cable is connected into the rot ry joint of the pedestal.

The pedestal houses the antenna drive motor (B1), which dives a gear reducer. The motor and precision gearing allow for operation in 100 knot relative winds. A head/stern flasher switch (S2), a precision resolver (B1), and synchro (B3) are geared to the main shaft in the pedestal.

The 5-Band Antenna Pedestal is supplied with a three-phas 1 horsepower drive motor requiring 380/440 VAC, 50/60 Hz power source.

The transmitted energy, a train of short pulses, is general d by the transmitter and radiated outward from the ship in a narrow beam by the Antenna Array. As the antenna rotates, the beam scans the surrounding surf as in all directions. Any object scanned by the antenna reflects a portion of the radiated signal back to the antenna.

A circulator in the rf front-end circuit couples the transmitter and receiver to the antenna, to permit a single antenna to be used for tra smission and reception. The signal reflected from an object is collected by the antenna and processed through the rf front-end to the IF amplifier. Detected echoes are displayed on the CRT screen of the indicator. The rf input to the pedestal is via coaxial cable. In addition to the RF coaxial cable, there are three control/power interconnections between the antenna pedestal and the receiver transmitter.

- 1. FF Cosx (7/8-inch EIA rf coaxial cable).
- 2. Antenna drive motor power (TSGU-9),
- Control signals (Belden 8769).
- 4. Synchro Data (35WU-3).

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Aug-10-01 07:54pm From-NOAA GCEL

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CONTRACT REST. THIS WILT IS CTITUDE IN FORM 3757 OTOISE  COL CRS 162°T RT 10 4 CM: 28 22 DMON 204 COMMS  SLAN PESTSO IN CIC All Electrical ED MANTEN OPPHAS  HENEROLINED WISCEPTING OF MY 92 (5782) AND SLETTE  CSUMD LAS DIVERS IS OND FT MERCIDE EVE.  2355 42 264°T  C1024 1/2 264°T  C1024 1/2 264°T  C130 46 356°T 4/3 16 31273  C150 96 350°T 1/3 9 8 25 =  C221 1/2 186°T  D237 1/2 196°T  D375 WATCH TO TO HE DAY F2EQS		15555 - 5458
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PLAN DESTRO IN CIC All PLANTICAN BO MERCIAM OPENANT WESTERDINED WESTERN SE MY 12 (TEX) AND SECTOR  (SELVED) LES TOVERS IS ODD FT MERCIDE WILL.  2355 YE 262 F  CO24 1/6 264 F  0100 YE 3587  C130 YE 3567 YS 18 31273  0153 YE 3507 YS 9 3274  0221 YE 180 F  DE 37 YE 214 F AT 10 HER.  2313 YE 195 T  0345 WATCH TO TO HE DAY F2EQS		CONLENT ROOK. THIS WHIT IS CONTINUE IN FORM 3950M OTOBEN
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REMARKS TIME 0800 - 1200 U/W AS BEFORE IN POSN BEAGN 07134W 1130 106 241 SPD 11.6 KTS SET FLT GTZS 6815 829 ENGINES ROTSES ENGAGED HELD CLIES PT SIDE 084 SET PUT CON Z SET FLT DTRS 1000 1018 ON DECK YC 07 8 90 / D KTS TO INTERCEPT KAKEN ELIZA CETH 1105 HEADED TO AULIN 07053 ACCROONS TO JUTS 1140 WATCH 10 TERRERA 1200-1600 1140 U/W IN POSN 39'50N 071'30W ON CSE BOOT @10KTS CGC PT. TURNER MODRET NEWPORT 200 37 S-BAND AN/SPS-64 SECURED FOR CORRECTIVE MAINTENANCE. C/C TO 830° @ 18,4 KTS. 1312 190] PROMITS DIAMER CONTACTS THINE NE CA NEXT WENT OFHER CHISTO MELAS @ 8.3×15. 1428 C/C TO 172° 1950 8.31LTS.

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Aug-10-01 07:56pm From-NOAA GCEL

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DATE: 10 MT 97

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Aug-10-01 07:56pm From-NOAA GCEL Case 1:04-cv-11171-DPW Document 15 Filed 04/07/2005 TP8geP14/6f 18-503

DATE: 1602197

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3014272211

T-292 P.14/17 F-503

DATE: 17 OCT

REMARKS TIME Apold - during 2330 UNDERWAY ON LE PATROL IN NO ATLANTIC LINDER CREON OF COMEANTALEH THIS UNIT IS STUYYIL IN POGN 3455N \$7\$ 10N ON COE 149 SPD 49 WX AS PER GHEN LOG. COMMS PLAN AS POSITED IN CIC ALL ELECTRUMICS ARE ENERGIZED W/EXCEPTION OF MK-47 IN STRY, ENS BURNS IS OUD FT35 REDICER KWS. MUCHS DUE TO BOHEDING OF FU SETTICER 2331 CICIS 433°T CPD IN KTS 0151 17741 CIC 1220T 4345 11C &B'TT 4330 WATCH TO ETS IRVIN A00 - 0800 Miliar 13e HOLLE IN HUSH 3753N 0110 CMBAT TRACK SIE'S IDENTIFIED AS ALICE MARIE LOBSTER BOAT TODO 5730 CSEC-1202 0730 Year Pas 4007 CG90/L OF 997 WIN SISKET 16 GATO C. S FIS DUE TO MAKES

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1702	6500 ON DECK
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1844	5/295 - AT 10,4KTS
	461617
1930	Which To Ex SPERKER
2	2444-7460
1930	UN AS BEFORE IN POSH 3954N 06957W
	CSE 149 = T SPD 11 KTS

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TIME	REMARKS
	Zépt 2466/com)
1950	BIGEYE PAGSED TWO VESSELS IN
	CAT: WE REQ THAT HE DECEND, ID
	DOCUMENT BOTH VESSELS.
2000	USCEC TAHOMA ASSUMED CTU 44.1.1
2153	CIC 220°T
2232	KIL 277 or
2330	WATCH TO ETS IRVIN
	Stoph Con
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